App. Serial No. 10/575,771 Docket No.: NL031227US

In the Claims:

Please amend claim 6 to be re-written in independent form, and add new claims 14 and 15 as indicated in the following listing, which replaces all prior versions.

1. (Previously Presented) A power converter, comprising:

an input circuit having a rectifier that is a single diode rectifier and a filter that includes a non-electrolytic capacitor connected in series with the rectifier, the filter providing a DC voltage output; and

a switched mode power supply IC arranged to receive the DC voltage output from the filter.

- 2. (Previously Presented) A power converter as claimed in claim 1, wherein the non-electrolytic capacitor has a capacitance of about 100 nF.
- 3. (Previously Presented) A power converter as claimed in claim 1, wherein the filter further includes an inrush resistor, a coil, and an electrolytic capacitor.
- 4. (Previously Presented) A power converter as claimed in claim 3, wherein the electrolytic capacitor has a capacitance of about $10 \mu F$.
- 5. (Previously Presented) A power converter as claimed in claim 3, wherein the coil and the non-electrolytic capacitor are arranged to filter distortions caused by the switched mode power supply IC.
- 6. (Currently Amended) A power converter as claimed in claim 3, comprising:

 an input circuit having a rectifier that is a single diode rectifier and a filter that
 includes an inrush resistor, a coil, an electrolytic capacitor, and a non-electrolytic
 capacitor connected in series with the rectifier, the filter providing a DC voltage output at
 a circuit node connecting the inrush resistor and one electrode of the electrolytic
 capacitor, and wherein the coil and the inrush resistor are connected in parallel between

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the non-electrolytic capacitor and the electrolytic capacitor, and a switched mode power supply IC arranged to receive the DC voltage output from the filter.

- 7. (Previously Presented) A power converter as claimed in claim 1, wherein the DC voltage output of the filter is applied to a series connection of a primary winding, the switched mode power supply IC, and a resistor.
- 8. (Previously Presented) A power converter as claimed in claim 1, wherein the switched mode power supply IC includes a high gain feedback loop.
- 9. (Previously Presented) A power converter as claimed in claim 8, wherein the high gain feedback loop includes a multiplier arranged to diminish ripple caused by the non-electrolytic capacitor.
- 10. (Previously Presented) A power converter as claimed in claim 9, wherein the multiplier is a factor 10 multiplier.
- 11. (Previously Presented) A power converter as claimed in claim 1, wherein the switched mode power supply IC includes an internal start-up circuit having a high-voltage start-up current source and without provision of any dissipative bleeder resistor.
- 12. (Previously Presented) A power converter, comprising:

an input circuit having a rectifier that is a single diode rectifier and a filter providing a DC voltage output, the filter including a non-electrolytic capacitor having a capacitance of no more than about 100 nF connected in series with the rectifier, a electrolytic capacitor, an inrush resistor, and a coil connected in parallel with the inrush resistor between the electrolytic capacitor and the non-electrolytic capacitor; and

a switched mode power supply IC arranged to receive the DC voltage output from the filter.

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- 13. (Previously Presented) A power converter as claimed in claim 12, wherein the electrolytic capacitor has a capacitance of about 10 μ F.
- 14. (New) A power converter as claimed in claim 6, wherein the single diode rectifier has one terminal connected to the non-electrolytic capacitor and to the inrush resistor.
- 15. (New) A power converter as claimed in claim 6, wherein the single diode rectifier has one terminal connected to one end of the non-electrolytic capacitor and to one end of the inrush resistor, wherein the other end of the non-electrolytic capacitor is connected to one end of the coil, wherein the other end of the inrush resistor is connected to one electrode of the electrolytic capacitor, wherein the other electrode of the electrolytic capacitor is connected to the other end of the coil and common, and wherein the switched mode power supply IC is arranged to provide a DC power signal relative to common.